

Fig. 1

ATGCTGCGTCGGCGGGGCAGCCCTGGCATGGGTGTGCATGTGGGTGCAGCCC
TGGGAGCACTGTGGTTCTGCCTCACAGGAGCCCTGGAGGTCCAGGTCCCTGA
AGACCCAGTGGTGGCACTGGTGGGCACCGATGCCACCCTGTGCTGCTCCTTCT
CCCCTGAGCCTGGCTTCAGCCTGGCACAGCTCAACCTCATCTGGCAGCTGAC
AGATAACCAAACAGCTGGTGCACAGCTTTGCTGAGGGCCAGGACCAGGGCAG
CGCCTATGCCAACCGCACGGCCCTCTTCCCGGACCTGCTGGCACAGGGCAAC
GCATCCCTGAGGCTGCAGCGCGTGCCTGTGGCGGACGAGGGCAGCTTCACCT
GCTTCGTGAGCATCCGGGATTTTCGGCAGCGCTGCCGTCAGCCTGCAGGTGGC
CGCTCCCTACTCGAAGCCCAGCATGACCCTGGAGCCCAACAAGGACCTGCGG
CCAGGGGACACGGTGACCATCACGTGCTCCAGCTACCGGGGCTACCCTGAGG
CTGAGGTGTTCTGGCAGGATGGGCAGGGTGTGCCCCTGACTGGCAACGTGAC
CACGTGCGCAGATGGCCAACGAGCAGGGCTTGTTTGATGTGCACAGCGTCCTG
CGGGTGGTGCTGGGTGCGAATGGCACCTACAGCTGCCTGGTGCGCAACCCCG
TGCTGCAGCAGGATGCGCACGGCTCTGTACCATCACAGGGCAGCCTATGAC
ATTCCCCCAGAGGCCCTGTGGGTGACCGTGGGGCTGTCTGTCTGTCTCATTG
CACTGCTGGTGGCCCTGGCTTTTCGTGTGCTGGAGAAAGATCAAACAGAGCTG
TGAGGAGGAGAATGCAGGAGCTGAGGACCAGGATGGGGAGGGAGAAGGCTC
CAAGACAGCCCTGCAGCCTCTGAAACACTCTGACAGCAAAGAAGATGATGG
ACAAGAAATAGCCTGA

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Fig. 2

ATGCTGCGTCGGCGGGGAGCCCTGGCATGGGTGTGCATGTGGGTGCAGCCC
TGGGAGCACTGTGGTTCTGCCTCACAGGAGCCCTGGAGGTCCAGGTCCCTGA
AGACCCAGTGGTGGCACTGGTGGGCACCGATGCCACCCTGTGCTGCTCCTTCT
CCCCTGAGCCTGGCTTCAGCCTGGCACAGCTCAACCTCATCTGGCAGCTGAC
AGATACCAAACAGCTGGTGCACAGCTTTGCTGAGGGCCAGGACCAGGGCAG
CGCCTATGCCAACCGCACGGCCCTCTTCCCGGACCTGCTGGCACAGGGCAAC
GCATCCCTGAGGCTGCAGCGCGTGCCTGTGGCGGACGAGGGCAGCTTCACCT
GCTTCGTGAGCATCCGGGATTTCTGGCAGCGCTGCCGTCAGCCTGCAGGTGGC
CGCTCCCTACTCGAAGCCCAGCATGACCCTGGAGCCCAACAAGGACCTGCGG
CCAGGGGACACGGTGACCATCACGTGCCCCAGCTACCGGGGCTACCCTGAGG
CTGAGGTGTTCTGGCAGGATGGGCAGGGTGTGCCCCTGACTGGCAACGTGAC
CACGTGCGCAGATGGCCAACGAGCAGGGCTTGTTTGATGTGCACAGCGTCCTG
CGGGTGGTGCTGGGTGCGAATGGCACCTACAGCTGCCTGGTGCGCAACCCCG
TGCTGCAGCAGGATGCGCACGGCTCTGTACCATCACAGGGCAGCCTATGAC
ATTCCCCCAGAGGGCCCTGTGGGTGACCGTGGGGCTGTCTGTCTGTCTCATG
CACTGCTGGTGGCCCTGGCTTTCGTGTGCTGGAGAAAGATCAAACAGAGCTG
TGAGGAGGAGAATGCAGGAGCTGAGGACCAGGATGGGGAGGGAGAAGGCTC
CAAGACAGCCCTGCAGCCTCTGAAACACTCTGACAGCAAAGAAGATGATGG
ACAAGAAATAGCCTGA

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Fig. 3

MLRRRGSPGMGVHVGAAALGALWFCLTGALEVQVPEDPVVALVGTDATLCCSFS
PEPGFSLAQLNLIWQLTDTKQLVHSFAEGQDQGSAYANRTALFPDLLAQGNASL
RLQRVRVADEGSFTCFVSIRDFGSAAVSLQVAAPYSKPSMTLEPNKDLRPGDTVT
ITCSSYRGYPEAEVFWQDGQGVPLTGNVTTSQMANEQGLFDVHSVLRVVLGAN
GTYSCLVRNPVLQQDAHGSVTITGQPMTFPEALWVTVGLSVCLIALLLVALAFV
CWRKIKQSCEEENAGAEDQDGEGESEKKTALQPLKHSDSKEDDGQEIA

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Fig. 4

MLRRRGSPGMGVHVGAAALGALWFCLTGALEVQVPEDPVVALVGTDATLCCSFS
PEPGFSLAQLNLIWQLTDTKQLVHSFAEGQDQGSAYANRTALFPDLLAQGNASL
RLQVRVVADEGSFTCFVSIRDFGSAAVSLQVAAPYSKPSMTLEPNKDLRPGDTVT
ITCPSYRGYPEAEVFWQDGQGVPLTGNTTSQMANEQGLFDVHSVLRVVLGAN
GTYSCLVRNPVLQQDAHGSVTITGQPMTFPPEALWVTVGLSVCLIALLVALAFV
CWRKIKQSCEENAGAEDQDGELEGSKTALQPLKHSDSKEDDGQEIA

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Fig. 5A

TC9220" 6845T660

hB7-H3	1	MLRRRGSPGM	GV	HVGA	AA	...	LGAA	WFC	ET	GA	EVQ	VED	...	PA	VL	MM	SS	PE	GF	ST	HA	QI	ND	LI	68
hB7-H2	1		GL	GS	...	...	PGL	LL	FS	...	SR	AD	QEK	...	EA	RM	SS	AC	PE	GR	FD	ND	VI	...	55
hB7-H1	1		IF	AV	FI	...	FMT	YWH	MA	...	LA	FT	VQ	...	LY	VVE	SN	IE	KE	PE	QD	ND	VI	...	58
hB7-2	1		GL	SN	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	52
hB7-1	1		MG	TR	RR	QG	IT	SP	SK	CP	YL	NF	Q	...	VL	GL	SH	FC	SG	VI	HN	TK	EE	...	67
hB7-H3	69	LT	TD	...	TK	QL	MM	SS	FA	EE	...	QQ	DQ	GS	AA	...	AL	FP	DL	LA	QA	GA	AA	...	135
hB7-H2	56	TS	ES	KT	VT	Y	TI	PN	SS	LE	...	QNS	SS	LE	...	QNS	SS	LE	...	QNS	SS	LE	...	...	127
hB7-H1	53	ME	DK	NI	Q	FF	IG	EE	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	127
hB7-2	59	DQ	EN	VL	N	EE	YL	G	KE	K	...	FDS	VQ	HH	...	...	...	...	...	...	...	...	...	...	119
hB7-1	68	KE	K	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	131
hB7-H3	136	LQ	AA	AP	YS	KP	SM	TL	EE	PN	KD	LR	...	...	...	...	...	...	...	...	...	...	...	...	201
hB7-H2	128	VE	TE	HA	AN	ES	VP	VS	AP	HS	...	...	...	...	...	...	...	...	...	...	...	...	...	...	196
hB7-H1	128	VK	NA	AP	YN	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	190
hB7-2	120	MNS	ET	SL	LA	NES	QPE	I	VP	IS	NI	IT	ENV	Y	IN	LL	CS	...	...	...	...	...	...	...	190
hB7-1	132	AE	NT	SS	KA	DD	PT	IS	SD	FE	IT	SN	IR	RI	IT	GS	TS	...	...	...	...	...	...	...	197
hB7-H3	202	FD	HS	VS	VR	VL	...	GA	NG	TS	...	...	...	...	...	...	...	...	...	...	...	...	...	...	261
hB7-H2	197	VD	VS	VR	VL	...	...	PS	VNI	GC	LI	EN	VL	Q	...	...	...	...	...	...	...	...	...	...	265
hB7-H1	191	FN	AT	TS	TR	INT	...	TE	IE	YQ	TE	RR	LD	PE	...	...	...	...	...	...	...	...	...	...	250
hB7-2	191	FN	AT	TS	TR	INT	...	TE	IE	YQ	TE	RR	LD	PE	...	...	...	...	...	...	...	...	...	...	253
hB7-1	198	VA	SS	KE	FD	NM	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	255
hB7-H3	262	LV	VA	VA	IG	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	316
hB7-H2	266	LV	VA	VA	IG	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	302
hB7-H1	251	LV	VA	VA	IG	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	290
hB7-2	254	VM	VF	CL	IL	WK	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	323
hB7-1	256	QL	F	IC	CL	Y	CF	AP	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	288

signal peptide

IgV-like domain

MLRRRGSPGMGVHGAALWFLTGALVQVPEDPVVALVGTATLCCSFSPGFSLAQLNIWQLTDTKQLVHSAEGDQGSAY
 ANRTALFPDLAQNASLRLQVRVVADEGSFTCFVSIRDGSAAVSLQVAAPYSKPSMTLEPNKDLRPGDVTITCSSYRGYPEAEVFW
 QDGQGVPLTGNVTSQMANEQGLFDVHSLRVVLGANGTYSCLVRNPVLQQDAHGSVTITGQPMTFPPEALWTVGLSVCLIALVALA

IgC-like domain

FVCWRKIKQSCSEENAGAEDQDGEKSKTALQPLKHSDSKEDDQGEIA

Fig. 5B

Fig. 6 A

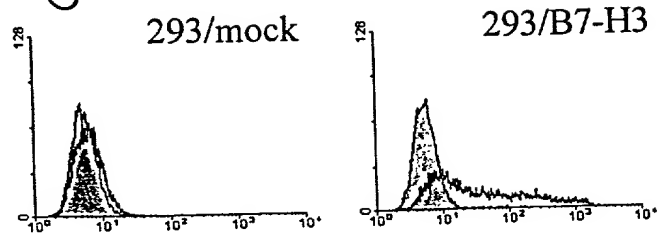
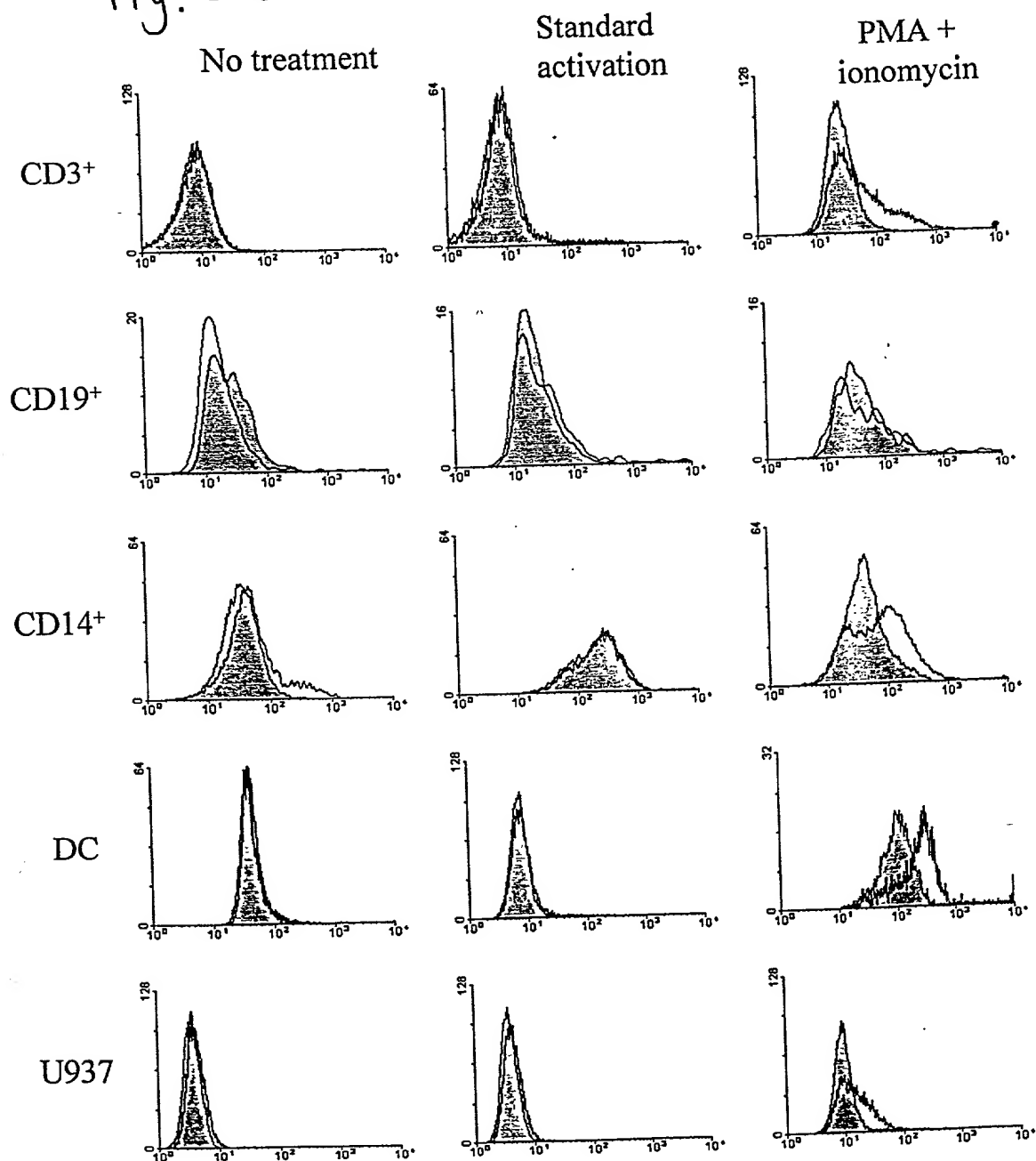


Fig. 6 B



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Fig. 7A

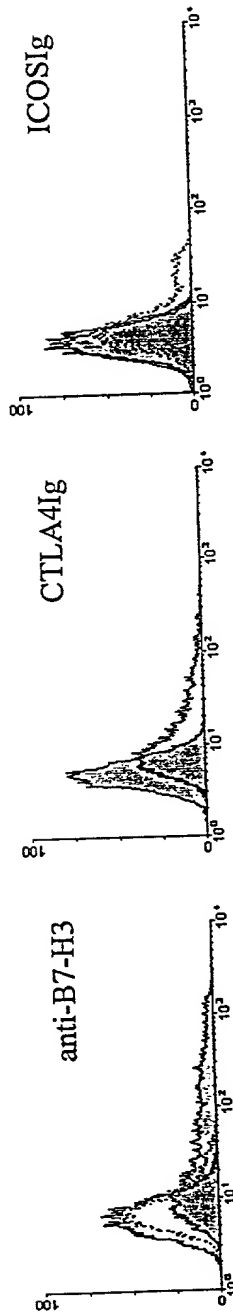
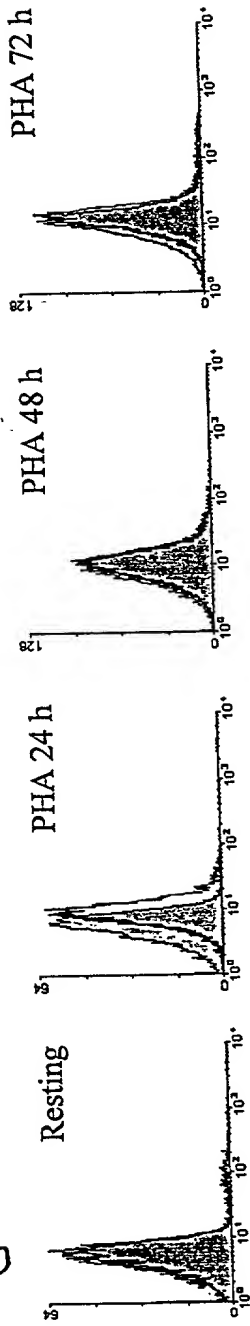


Fig. 7B

Fig. 8A

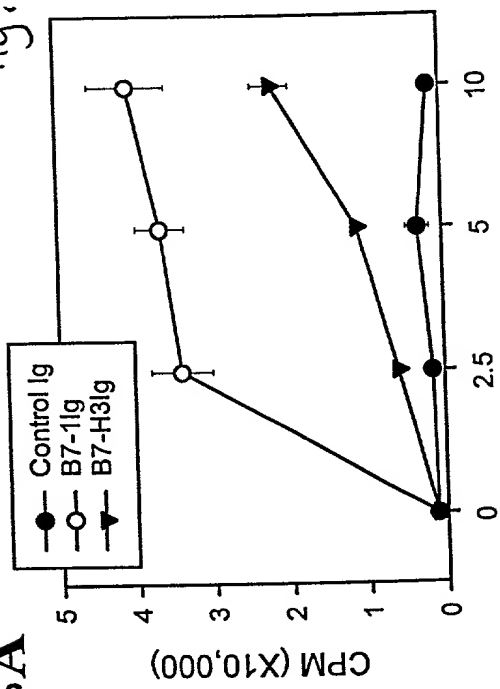


Fig. 8B

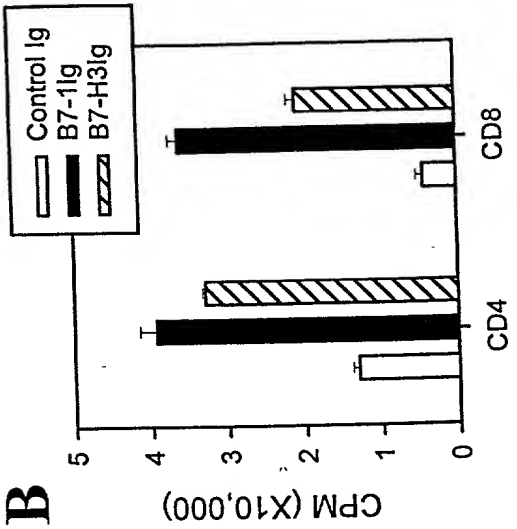


Fig. 8C

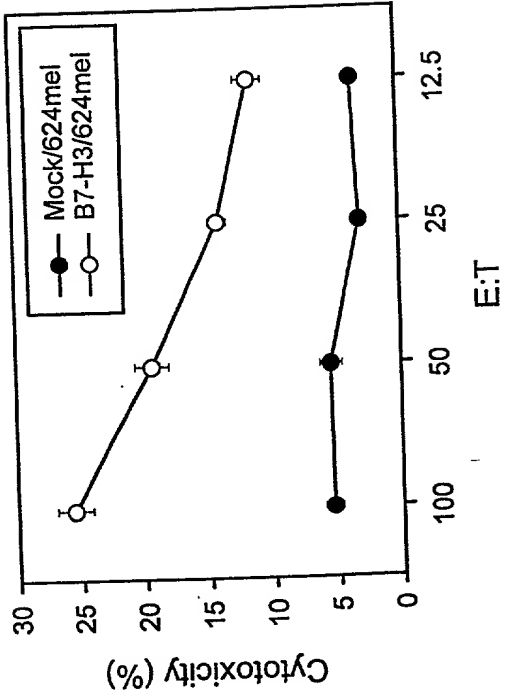


Fig. 9

ATGGCTTCCCTGGGGCAGATCCTCTTCTGGAGCATAATTAGCATCATCATTAT
TCTGGCTGGAGCAATTGCACTCATCATTGGCTTTGGTATTTTCAGGGAGACACT
CCATCACAGTCACTACTGTGCGCTCAGCTGGGAACATTGGGGAGGATGGAAT
CCTGAGCTGCACTTTTGAACCTGACATCAAACCTTTCTGATATCGTGATACAAT
GGCTGAAGGAAGGTGTTTTAGGCTTGGTCCATGAGTTCAAAGAAGGCAAAGA
TGAGCTGTCGGAGCAGGATGAAATGTTTCAGAGGCCGGACAGCAGTGTTTGCT
GATCAAGTGATAGTTGGCAATGCCTCTTTGCGGCTGAAAAACGTGCAACTCA
CAGATGCTGGCACCTACAAATGTTATATCATCACTTCTAAAGGCAAGGGGAA
TGCTAACCTTGAGTATAAACTGGAGCCTTCAGCATGCCGGAAGTGAATGTG
GACTATAATGCCAGCTCAGAGACCTTGCGGTGTGAGGCTCCCCGATGGTTCC
CCCAGCCCACAGTGGTCTGGGCATCCCAAGTTGACCAGGGAGCCAACTTCTC
GGAAGTCTCCAATACCAGCTTTGAGCTGAACTCTGAGAATGTGACCATGAAG
GTTGTGTCTGTGCTCTACAATGTTACGATCAACAACACATACTCCTGTATGAT
TGAAAATGACATTGCCAAAGCAACAGGGGATATCAAAGTGACAGAATCGGA
GATCAAAAGGCGGAGTCACCTACAGCTGCTAAACTCAAAGGCTTCTCTGTGT
GTCTCTTCTTTCTTTGCCATCAGCTGGGCACTTCTGCCTCTCAGCCCTTACCT
GATGCTAAAATAA

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Fig. 10

MASLGQILFWSIISIIILAGAIALIIGFGISGRHSITVTTVASAGNIGEDGILSCTFEPD
IKLSDIVIQWLKEGVLGLVHEFKEGKDELSEQDEMFRGRTAVFADQVIVGNASLR
LKNVQLTDAGTYKCYIITSKGKGNANLEYKTGAFSMPEVNVDYNASSETLRCEA
PRWFPQPTVVWASQVDQGANFSEVSNTSFELNSENVTMKVVSVLNVNTINNTYS
CMIENDIAKATGDIKVTSEIKRRSHLQLLSKASLCVSSFFAISWALLPLSPYLM
LK

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BB7-H4
BB7-H2
BB7-H3.2
BB7-H1
BB7-2
BB7-1 L N

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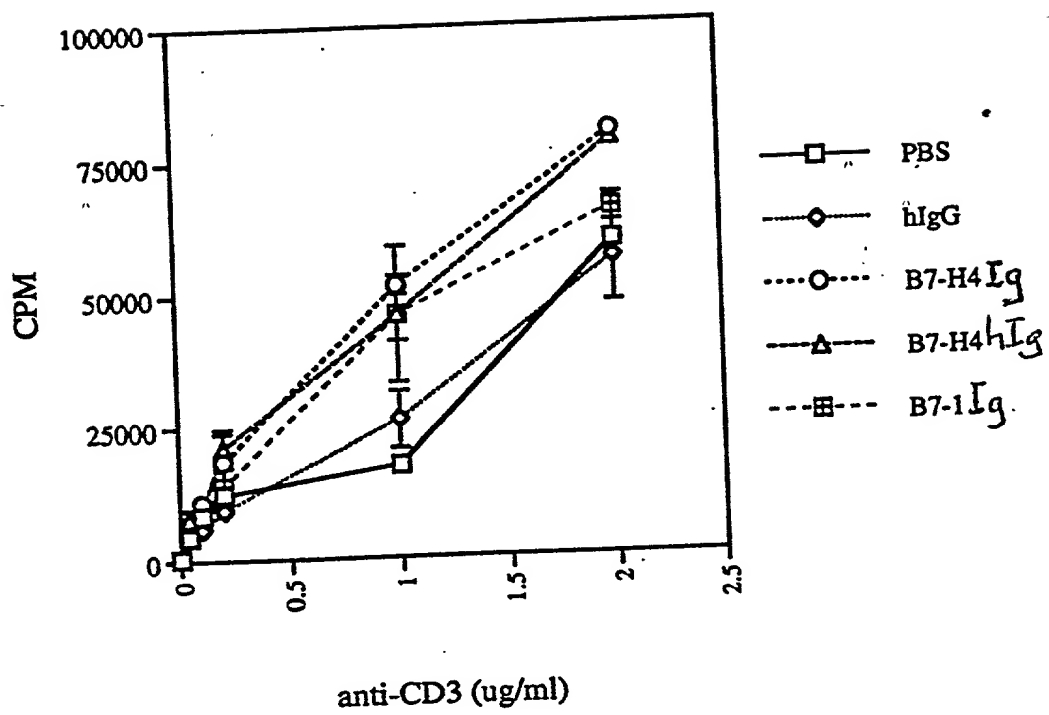


FIG. 12

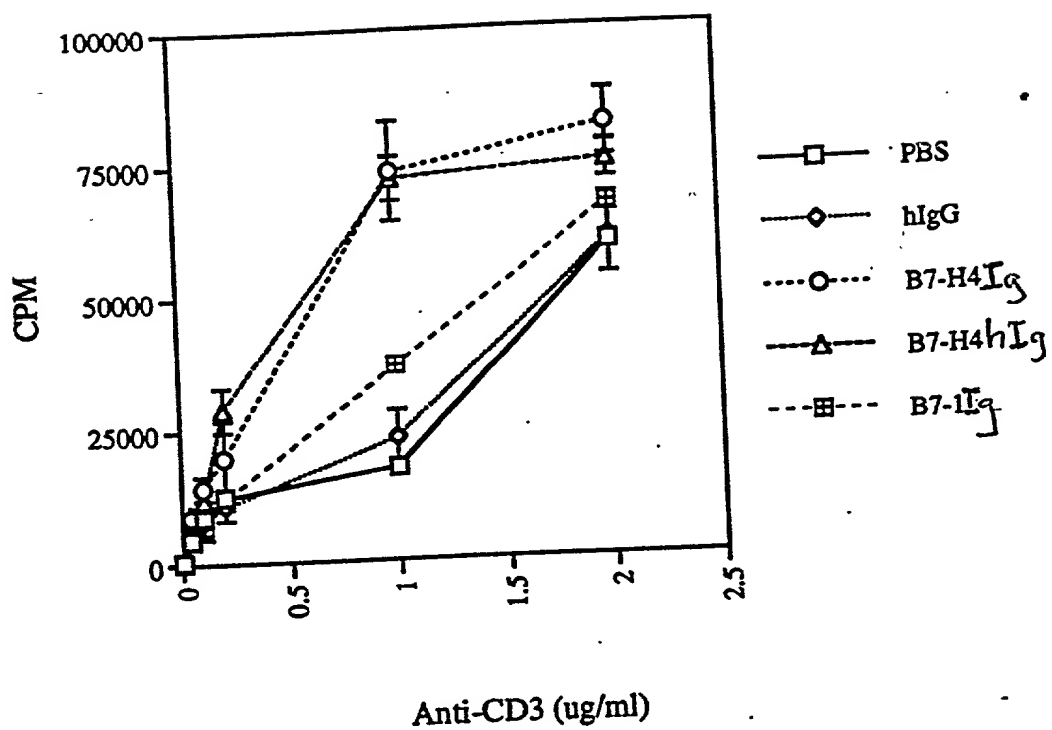


FIG. 13

Fig. 14

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